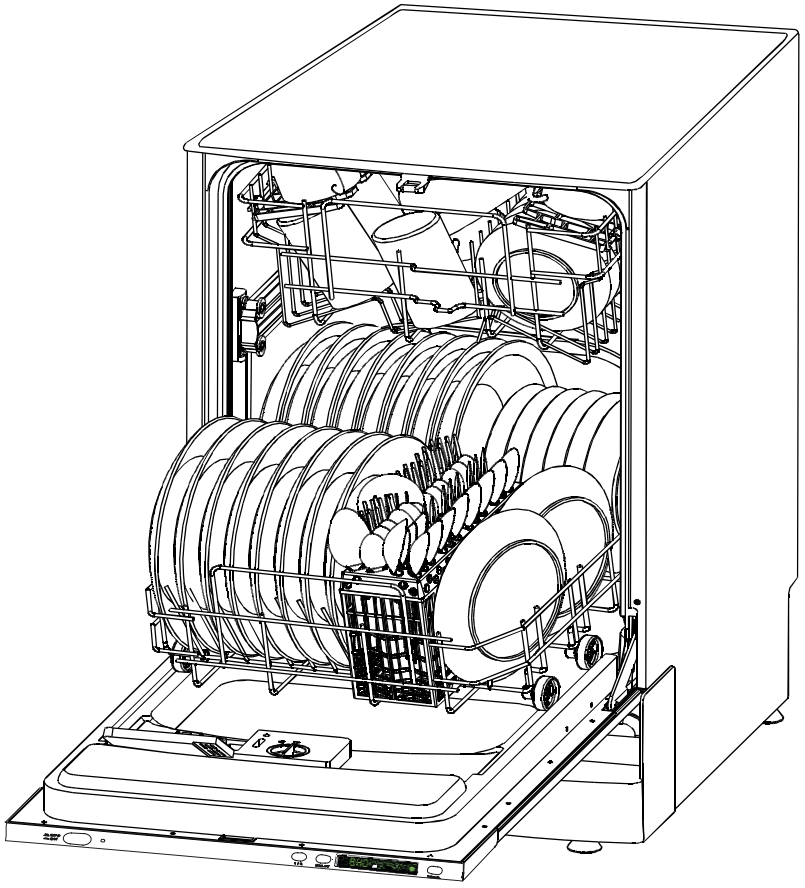
DēLonghi

Dishwashers

Instruction Manual

DW97AU



Read this Manual

Dear Customer,

Please read this User Information carefully and keep it to refer to at a later date.

Pass it on to any subsequent owner of the appliance.

This manual contains sections of safety instructions, operating instructions,installation instructions and trouble shooting tips .

Carefully reading it before using the dishwasher will help you to use and maintain the dishwasher properly.

Before Calling for Service

To review the section on Troubleshooting Tips will help you to solve some common problems by yourself and not need to ask for the help of professional technicians.

NOTE:

The manufacturer, following a policy of constant development and up–dating of the product, may make modifications without giving prior notice.

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1.IMPORTANT SAFETY INFORMATION READ ALL INSTRUCTIONS BEFORE USING

⚠ WARNING!

When using your dishwasher, follow the below basic precautions including the following:

⚠ WARNING! HYDROGEN GAS IS EXPLOSIVE

Under certain conditions, Hydrogen gas may be produced in a hot–water system that has not been used for two weeks or more. HYDROGEN GAS IS EXPLOSIVE.If the hot–water system has not been used for such a period, before using the dishwasher turn on all hot–water faucets and let the water flow from each for several minutes. This will release any accumulated hydrogen gas. As the gas is flammable, do not smoke or use an open flame during this time.

WARNING! PROPER USE

- Do not abuse, sit on, or stand on the door or dish rack of the dishwasher
- Do not operate your dishwasher unless all enclosure panels are properly in place. Open the door very carefully if the dishwasher is operating. There is a risk of water squirting out.
- Do not place any heavy objects or stand on the door when it is open.
- When loading items to be washed:
  - Locate sharp items so that they are not likely to damage the door seal;
  - Load sharp knives with the handles up to reduce the risk of injury;
  - Warning knives and other utensils with sharp points must be loaded in the basket with their points down or placed in a horizontal position.
- Check that the detergent receptacle is empty after completion of the wash cycle.
- Do not wash plastic items unless they are marked dishwasher safe or the equivalent. For plastic items not so marked, check the manufacturer's recommendations.
- Use only detergent and rinse additives designed for an automatic dishwasher. Never use soap, laundry detergent, or hand washing detergent in your dishwasher.
- Other means for disconnection from the supply must be incorporated in the fixed wiring with at least 3mm contact separation in all poles.
- Keep children away from detergent and rinse aid, keep children away from the open door of the dishwasher, there could still be some detergent left inside.
- Young children should be supervised to ensure that they do not play with the appliance.
- The appliance is not intended for use by young children or infirm persons without supervision.
- Dishwasher detergents are strongly alkaline. They can be extremely dangerous if swallowed. Avoid contact with skin and eyes and keep children away from the dishwasher when the door is open.
- The door should not be left in the open position since this could present a tripping hazard.
- If the supply cord is damaged, it must be replaced by the manufacturer or its service representative or a similarly qualified person in order to avoid a hazard.
- Please dispose of packing materials properly.
- Use the dishwasher only for its intended function.
- During installation, the power supply must not be excessively or dangerously bent or flattened.
- Do not tamper with controls.
- The appliance is to be connected to the water mains using new hose sets and the old hose–sets should not be reused.

READ AND FOLLOW THIS SAFETY INFORMATION CAREFULLY

SAVE THESE INSTRUCTIONS

2.Disposal

Dispose of the dishwasher packaging material correctly.
All packaging materials can be recycled.
Plastic parts are marked with the standard international abbreviations:

- PE for polyethylene, e.g. sheet wrapping material
- PS for polystyrene, e.g. padding material
- POM polyoxymethylene, e.g. plastic clips
- PP polypropylene, e.g. Salt filler
- ABS Acrylonitrile Butadiene Styrene, e.g. Control Panel .

Warning!

Packaging material could be dangerous for children!
For disposing of package and the appliance please go to a recycling centre.
Cardboard packaging is manufactured from recycled paper and should be disposed in the waste paper collection for recycling.When disposing of any dishwasher please remove the door or make the door closing device unusable.
By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product.
For more detailed information about recycling of this product, please contact your local city office and your household waste disposal service.

3.Operation Instruction

IMPORTANT!

To get the best performance from your dishwasher,read all operating instructions before using it for the first time.

Control Panel

1 ON/OFF Button: To turn on/off the power supply.

2 Power on light: To come on when Power ON/OFF button is pressed down.

3 Half Wash Key: Button to select Half Wash. (It means that the lower spray arm does not run, so you should load the upper basket only)

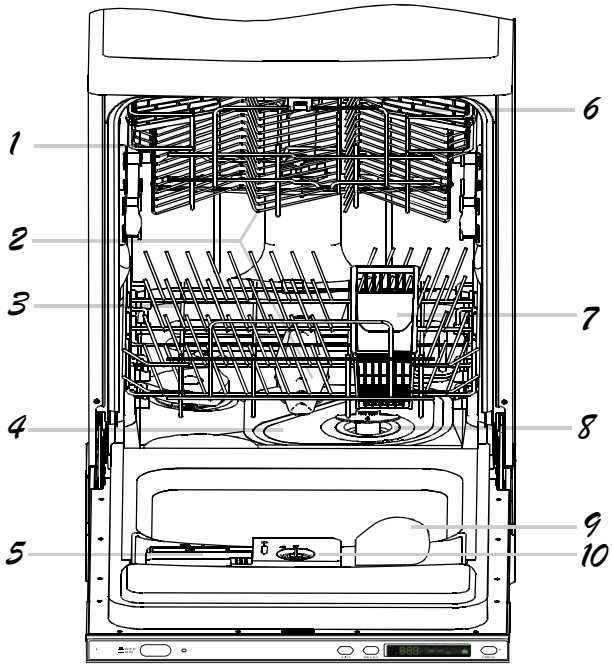
4 Delayed Start Button: Press this button to set the delayed hours for washing. You can delay the start of washing up to 24 hours. One press on this button delays the start of washing by one hour.

5 Display Window: delay time, running indicator, faut codes and etc.

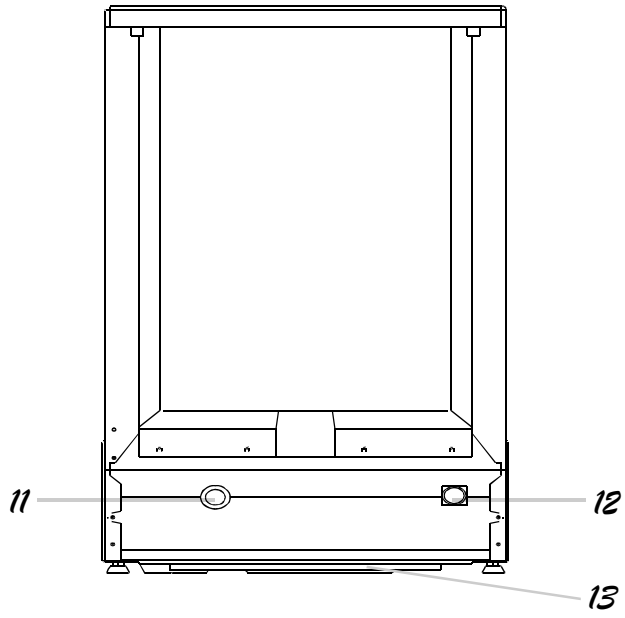
6 Program Key–press:To select washing program when press the Key–press.

Dishwasher Features

Front view



Back View



1 Upper Basket
2 Spray Arms
3 Lower Basket
4 Main Filter
5 Detergent Dispenser
6 Cup Shelf
7 Silverware Basket
8 Coarse Filter
9 Turbo dry
10 Rinse Aid Dispenser
11 Drain pipe connector
12 Inlet pipe connector
13 Tray assembly.

NOTE: The water softener only needs to be used with hard water or bore water, water supplies. You can skip this section if this does not apply

WATER SOFTENER
The hardness of the water varies from place to place. If hard water is used in the dishwasher, deposits will from on the dishes and utensils.
The appliance is equipped with a special softener that uses a salt specifically designed to eliminate lime and minerals from the water.

4.Prior using for the first time

Before using your dishwasher for the first time:

A. Set the water softener

B. Pour 1／2 litre of water inside the salt container and then fill with dishwasher salt

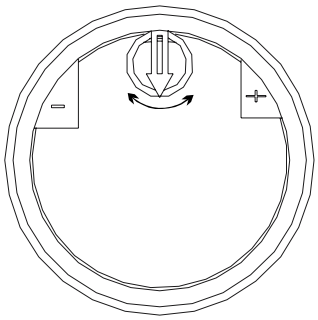
C. Fill the rinse aid dispenser

D. Function of detergent

A. Water Softener

The water softener must be set manually, using the water hardness dial.
The water softener is designed to remove minerals and salts from the water, which would have a detrimental or adverse effect on the operation of the appliance. The higher the content of these minerals and salts, the harder your water is. The softener should be adjusted according to the hardness of the water in your area. Your local Water Authority can advise you on the hardness of the water in your area.

Adjusting Salt Consumption
The dishwasher is designed to allow for adjusting the amount of salt consumed based on the hardness of the water used. This is intended to optimize and customize the level of salt consumption so that the salt consumption could be set proceed as follows:



1. Unscrew the cap from the salt container
2. There is aring on the container with anarrow on it (see figure to the side), if necessary, rotate the ring in the anticlockwise direction from the "–" Setting toward the "+" sign, based on the hardness of the water being used. It is recommended that adjustments should be made in accordance with the following schema:

WATER HARDNESS				Selector Position	Salt consumption (gram/cycle)	Auto nomy (cycles/1.2kgs)
°dH	°fH	°Clark	mmol/l			
0~8	0~14	0~10	0~1.4	/	0	/
8~22	14~39	10~28	1.4~3.9	–	20	60
22~45	39~80	28~56	3.9~8	Mid	40	30
>45	>80	>56	>8	+	60	20

Note:1 ° dH=1.25 ° Clark=1.78 ° fH=0.178mmol/l

° dH : German degree

° fH : French degree

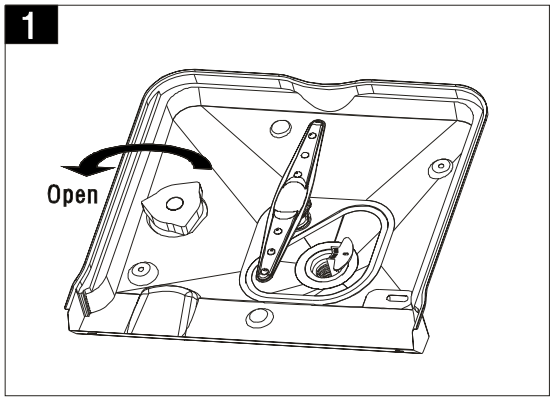
° Clark: British degree

Contact your local water board for information on the hardness of your water supply.

B. Loading the Salt into the Softener

Always use salt intended for use with dishwasher.
The salt container is located beneath the lower rack and should be filled as follows:
Attention!
Only use salt specifically designed for use in dishwashers! All other types of salt not specifically designed for use in a dishwasher, especially table salt, will damage the water softener. In case of damages caused by the use of unsuitable salt the manufacturer does not give any warranty nor is liable for any caused damages.
Only fill with salt just before starting one of the complete washing programmes. This will prevent any grains of salt or salty water, which may have been split, remaining of the bottom of the machine for any period of time, which may cause corrosion.
After the first wash cycle the control panel light expires.

1



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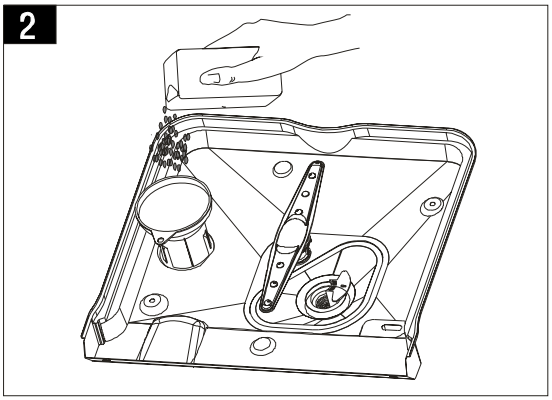


A Remove the lower basket and then unscrew and remove the cap from the salt container. 1
B If you are filling the container for the first time, fill 2/3 of its volume with water (around 500ml).
C Place the end of the funnel (supplied) into the hole and introduce about 1,2kg of salt. It is Normal for a small amount of water to come out of the salt container. 2
D Carefully screw the cap back on.
E Usually, the salt warning light will be off in 2–6 days after the salt container be filled with salt.

NOTE:
1. The salt container must be refilled when the salt warning light in the control panel comes on. Though the salt container is filled enough, the indicator light may not black out before the salt fully dissolve.
If there is no salt warning light in the control panel (for some models) , you can judge when to load the salt into the softener by the cycles that the dishwasher had run .
2. If there are spills of the salt, a soak program could be run to wipe them out.

C. Fill the Rinse Aid Dispenser

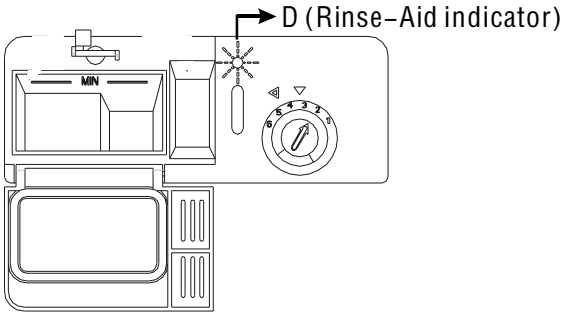
Function of Rinse Aid
Rinse aid is automatically added during the last rinse, ensuring thorough rinsing, and spot and streak free drying.
Attention!
Only use branded rinse aid for dishwasher. Never fill the rinse aid dispenser with any other substances (e.g. dishwasher cleaning agent, liquid detergent). This would damage the appliance.

When to Refill the Rinse Aid Dispenser

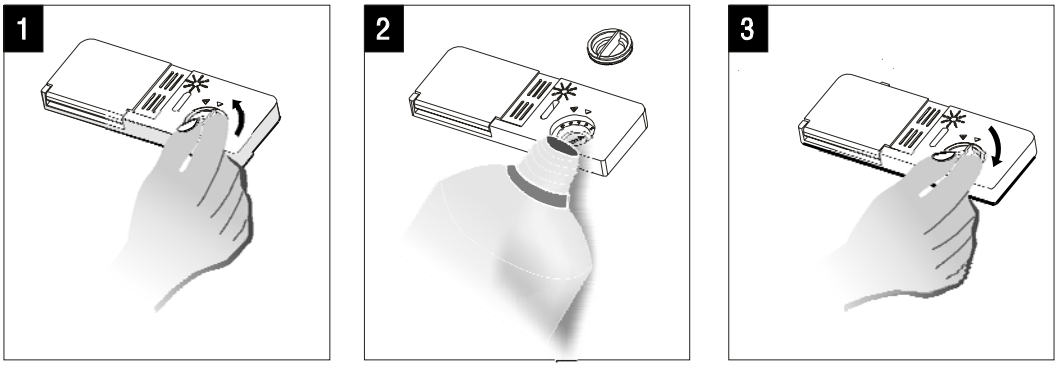
You can judge the amount of rinse–aid by the color of the optical level indicator "D" located next to the cap. When the rinse–aid container is full, the whole indicator will be dark .As the rinse–aid diminishes, the size of the dark dot decreases. You should never let the rinse aid get below 1 / 4 full.

As the rinse aid diminishes, the size of the black dot on the rinse aid level indicator changes, as illustrated below.

- ● Full
- ◉ 3 / 4 full
- ◉ 1 / 2 full
- ⊙ 1 / 4 full – Should refill to eliminate spotting
- ○ Empty



RINSE AID DISPENSER

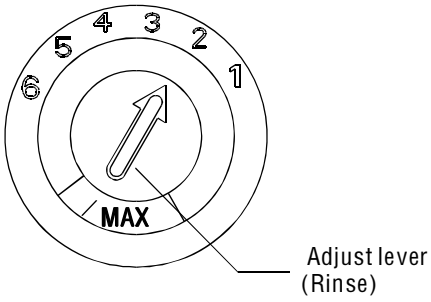


1 To open the dispenser, turn the cap to the "open" (left) arrow and lift it out.
2 Pour the rinse aid into the dispenser, being careful not to overfill.
3 Replace the cap by inserting it aligned with "open" arrow and turning it to the closed (right) arrow.

The rinse aid is released during the final rinse to prevent water from forming droplets on your dishes that can leave spots and streaks. It also improves drying by allowing water to sheet off the dishes. Your dishwashers are designed to use liquid rinse aids. The rinse aid dispenser is located inside the door next to the detergent dispenser. To fill the dispenser, open the cap and pour the rinse aid into the dispenser until the level indicator turns completely black. The volume of the rinse aid container is about 140ml.
Be careful not to overfill the dispenser, because this could cause over sudsing. Wipe away any spills with a damp cloth. Don't forget to replace the cap before you close dishwasher door.

Attention!
Clean up any rinse aid split during filling with an absorbent cloth to avoid excess foaming during the next wash.

Adjusting Rinse Aid Dispenser



The rinse aid dispenser has 6 settings. Always start with the dispenser set on "2". If spots and poor drying are problems, increase the amount of rinse aid dispensed by removing the dispenser lid and rotating the dial to "3". If the dishes still are not drying properly or are spotted, adjust the dial to the next higher number until your dishes are spot–free. We suggest you to set on "2" (Factory value is "2")
NOTE:
Increase the dose if there are drops of water or lime spots on the dishes after washing. Reduce it if there are sticky whitish streaks on the dishes or a bluish film on glassware or knife blades.

D. Function of Detergent

Detergents with its chemical ingredients are necessary to remove dirt, dissolved dirt and transport it out of the dishwasher. Most of commercial quality detergents are suitable for this purpose.

Concentrated Detergent

Based on their chemical composition, dishwasher detergent can be:
- conventional, alkaline detergents with caustic components
- low alkaline concentrated detergents with natural enzymes

The use of "normal" washing programmes in conjunction with concentrated detergents reduces pollution and is good for your dishes; these wash programmes are specially matched to the dirt–dissolving properties of the enzymes of the concentrated detergent. For this reason "normal" wash programmes in which concentrated detergents are used can achieve the same results that can otherwise only be achieved using "intensive" programmes.

Detergent Tablets

Detergent tablets of different brands dissolve at different speeds. For this reason some detergent tablets cannot dissolve and develop their full cleaning power during short programmes. Therefore please use long programmes when using detergent tablets, to unsure the complete removal of detergent residuals.

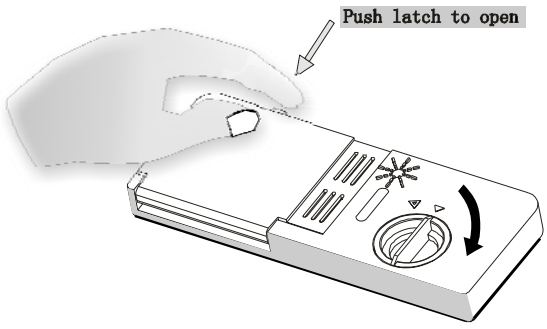
Detergent Dispenser

The dispenser must be refilled before the start of each wash cycle following the instructions provided in the Wash Cycle Table. Generally, only one tablespoon of detergent is needed for a normal wash load. Also, more heavily soiled items need more detergent. Always add the detergent just before starting dishwasher, otherwise it could get damp and will not dissolve properly.

Amount of Detergent to Use

Please refer to the 'WASH CYCLE TABLE' on page 15 for the correct amount of detergent to use for each cycle

1



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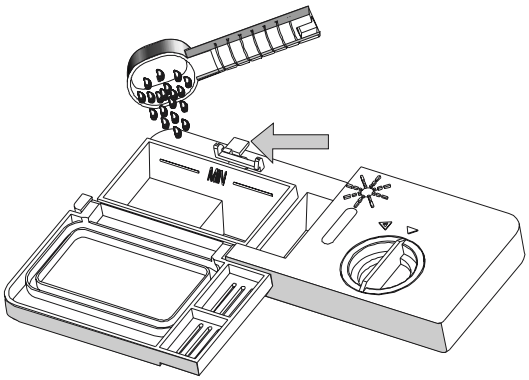


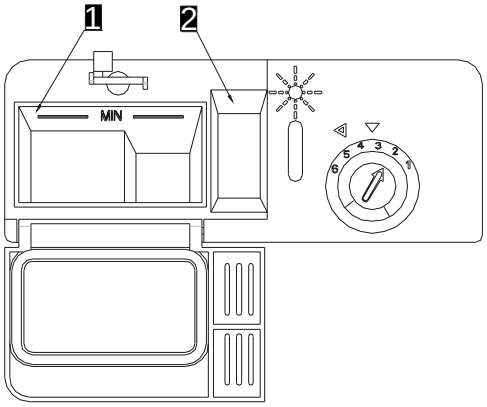
NOTE:

1. If the lid is closed: press release button. The lid springs open.
2. Always add the detergent just before starting each wash cycle. Only use branded detergent aid for dishwasher.

⚠ WARNING!
Dishwasher detergent is corrosive! Take care to keep it out of reach of children.

Proper Use of Detergent
Use only detergent specifically made for use in dishwashers. Keep your detergent fresh and dry. Don't put powder detergent into the dispenser until you're ready to wash dishes.

Filling the detergent container



Fill the detergent dispenser with detergent.
The marking indicates the dosing levels , as illustrated on right:

1 Place the detergent for the main wash cycle here.

2 Place the detergent for the pre–wash cycle here.

Please observe the manufacturers dosing and storage recommendations as stated on the detergent packaging.

Close the lid and press until it locks in place.

If the dishes are heavily soiled, place an additional detergent dose in the pre–wash detergent chamber. This detergent will take effect during the pre–wash phase.

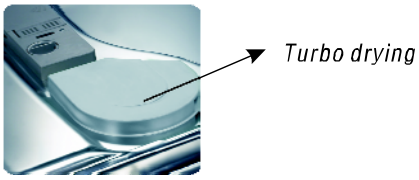
NOTE:

You find information about the amount of detergent for the single programmes on the last page. Please aware, that according to the level soiling and the specific hardness of water differences are possible.

Please observe the manufacturer's recommendations on the detergent packaging.

Turbo drying

Turbo drying is a very effective drying system.
The moist, warm air is expelled quickly by a fan to provide optimum drying results.



5.Loading the Dishwasher Racks

For best performance of the dishwasher, follow these loading guidelines. Features and appearance of racks and silverware baskets may vary from your model.

Attention before or after Loading the Dishwasher Racks

Scrape off any large amounts of leftover food. It is not necessary to rinse the dishes under running water. Place objects in the dishwasher in following way:

1.Items such as cups, glasses, pots/pans, etc. are stood upside down.
2.Items with recesses or curves should be placed at a slant to allow the water to run off where possible, to avoid water pooling on the dish.
3.They are stacked securely and can not tip over.
4.They do not prevent the spray arms from rotating while washing takes place.

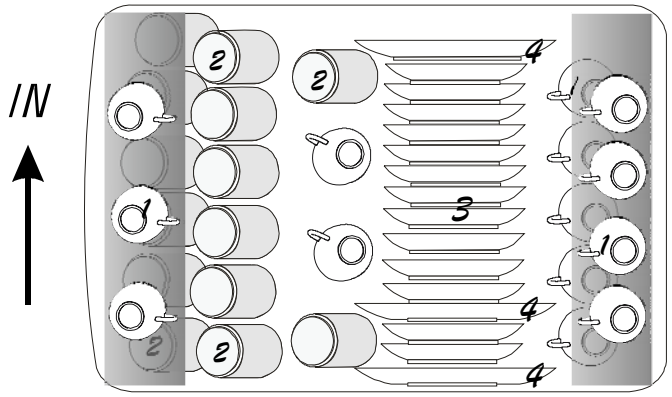
Very small items should not be washed in the dishwasher as they could easily fall out of the racks.

Removing the Dishes

To prevent water dripping from the upper back into the lower back, we recommend that you empty the lower basket first and then the upper back.

Loading the Upper Rack

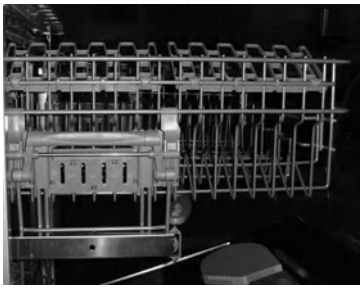
The upper rack is designed to hold more delicate and lighter dishware such as glasses, coffee and tea cup and saucers, as well as plates, small bowls and shallow pans (as long as they are not too dirty).
Position the dishes and cookware so that they do not get moved by the spray of water.



1 Cups
2 Glasses
3 Saucers
4 Dessert dishes

HOW TO USE THE UPPER RACK(14 PLACE SETTINGS)

The upper rack is for more delicate and lighter dishware such as glasses, coffee & tea cups, saucers, plates, bowls, and shallow pans (provided these are not too dirty).

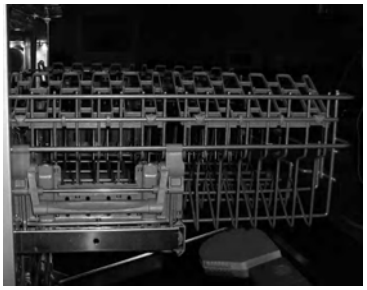


POSITION 1

Position the dishes and cookware so that they do not get moved by the spray of water. Always place glasses, cups & bowls upside down.

NOTE:

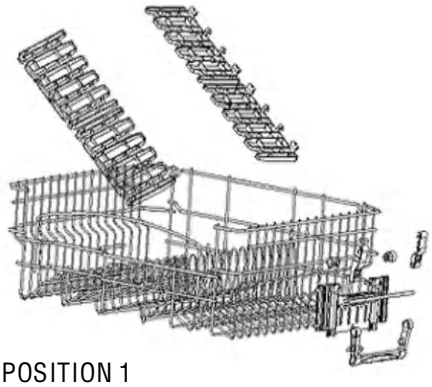
Your dishwasher comes with an adjustable top rack (basket) pictured at right. Its height can be adjusted by lifting the handle in a downward or upward direction. (PIs see the figures on the right: position 1 & positon 2.)



POSITION 2

NOTICE:

Ensure the metal rod is located in its correct position.



NOTE: The upper rack has side flaps (pictured at left above basket). There are 4 (2 on each side). These can be adjusted into 2 positions = position 1 (high) and position 2 (low).

To move the flaps between these positions, locate the large hinges clip each flap to the upper rack. There are two of these at either end of each flap. Gently pull both clips off the wire rack and move the flap to the desired position. be careful if you have long fingernails!

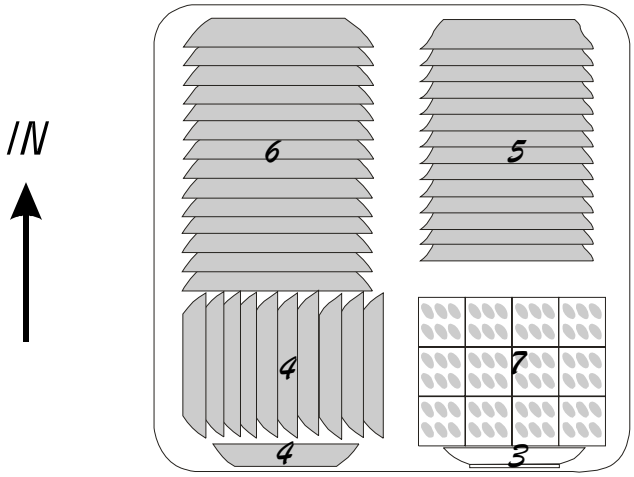
POSITION 1
The upper position will accommodate items such as glass tumblers (placed beneath flap) and wine glasses. Wine glasses can be placed upside down so that the neck rests in the grooves at side of flap with the base of the glass facing upward.

POSITION 2
When the flaps are moved to the lower position, they can be used to hold additional tumblers, cups and mugs. Always check that you are only placing items on the flaps that will clear the ceiling height of your dishwasher when you push the rack back in. Be careful with long–stemmed glassware such as champagne glasses and ensure that these are clear of the top of the dishwasher.

Loading the Lower Rack

We recommend that you place large items which are most difficult to clean into the lower rack: pots, pans, lids, serving dishes and bowls, as shown in the figure blow.
It is preferable to place serving dishes and lids on the side of the racks in order to avoid blocking the rotation of the top spray arm.

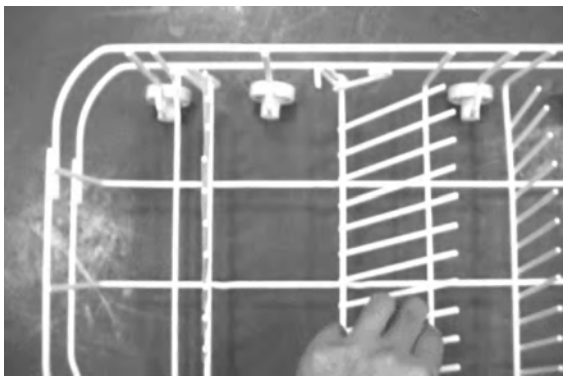
Pots, serving bowls, etc. must always be placed top down.
Deep pots should be slanted to allow water to flow out.
The bottom rack feature fold down tine rows so that larger or more pots and pans can be loaded.



4 Dessert dishes
5 Soup plates
6 Dinner plates
7 Silverware basket

Folding spikes

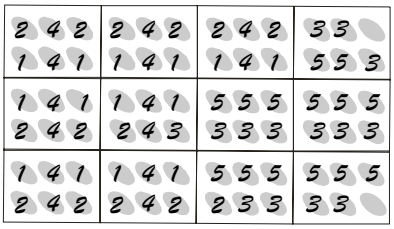
To improve stacking of pots and pans, the spikes can be folded down.This can be done by initially lifting up the wire rack then folding down. This should be done when the dishwasher is empty



Silverware Basket

Silverware should be placed in the silverware basket with handles at the bottom: If the rack has side baskets, the spoon should be loaded individually into the appropriate slots, especially long utensils should be placed in the horizontal position at the front of the upper rack.

IN



1 Forks
2 Soup spoons
3 Dessert spoons
4 Teaspoons
5 Knife

⚠ *WARNING!*

Do not let any item extend through bottom.

Are not suitable

- **Cutlery with wooden, horn china or mother–of–pearl handles**
- **Plastic items that are not heat resistant**
- **Older cutlery with glued parts that is not temperature resistant**
- **Bonded cutlery items or dishes**
- **Pewter or cooper items**
- **Lead crystal glass**
- **Steel items subject to rusting**
- **Wooden platters**
- **Items made from synthetic fibres**

Are of limited suitability

Some types of glasses can become dull after a large number of washes

Silver and aluminium parts have a tendency to discolour during washing

Glazed patterns may fade if machine washed frequently

NOTE:

Do not put in items that are dirty of cigarette ash, candle wax, lacquer or paint. To avoid damage to your dishes please only put dishwasher safe products in your dishwasher.

NOTE:

Please do not overload your dishwasher. There is only space for 14 standard dishes.

Loading cutlery and dishes

Before loading the dishes, please rinse soiled cutlery and dishes before loading to remove large left–over remnants.

When loading the dishes and cutlery, please note:

Dishes and cutlery must not impede the rotation of the spray arms
Load hollow items such as cups, glasses, pans etc. with the opening downwards so that water cannot collect in the container or a deep base

Dishes and items of cutlery must not lie inside one another, or cover each other

- To avoid damage to glasses, they must not touch
- Load large items which are most difficult to clean into the lower rack
- The upper rack is designed to hold more delicate and lighter dishware such as glasses, coffee and tea cups

Attention!

Long bladed knives stored in an upright position are a potential hazard and may cause damage to other dishes. Long and/or sharp items of cutlery such as carving knives must be positioned horizontally in the upper basket

Possible causes:

- Type of glass or manufacturing process. Chemical composition of detergent.
- Water temperature and duration of dishwasher programme.

Suggested remedy:

- Use glassware or porcelain dishes that have been marked dishwasher–proof by the manufacturer
- Use a mild detergent that is described as kind of dishes If necessary, seek further information from detergent manufacturers.
- Select a programme with as low a temperature.
- To prevent damage, take glass and cutlery out of the dishwasher as soon as possible after the programme has ended.

At the end of the wash cycle

At the end of a wash cycle, the time display will flash for 8 seconds while the buzzer sound. However, when the delay start funtion is activated, the time display will flash for 8 seconds, but the buzzer will not sound.

6.Starting a washing programme

WASH CYCLE TABLE

Program	Cycle	Cycle Selection Information	Description of Cycle	Detergent pre/main	Rinse Aid
3 In1		For normally soiled loads, such as pots, plates,glasses and lightly soiled pans. standard daily cycle.	Pre–wash pre–wash wash45℃ rinse rinse68 drying	3in1	
Intensive		For the heaviest soiled loads, such as pots,pans,casserole dishes and dishes that have been sitting with dried food on them for a while.	Pre–wash(45℃) wash(50℃/70℃) Rinse Rinse Rinse (70℃) Drying.	5/30 g.	★
Heavy		For heavy soiled loads, such as pots, plates,glasses and lightly soiled pans. standard daily cycle.	Pre–wash Pre–wash Wash (50℃) Rinse Rinse (70℃) Drying.	5/30 g.	★
Normal	 (AS/NZS 2007.1)	For normal soiled loads,such as plates,glasses,bowls and lightly soiled pans.	Pre–wash Pre–Wash Wash(50℃) Rinse 60℃ Drying.	2.5/30 g.	★
Rinse		For dishes that need to be rinsed and dried only.	Rinse Rinse (70℃) Drying.		★
Rapid		A shorter wash for lightly soiled loads that do not need drying.	Wash (40℃) Rinse (50℃) Rinse	20 g.	
Soak		To rinse dishes that you plan to wash later that day.	Rinse		

Turning on the Appliance

Starting a wash cycle...

1 Draw out the lower basket load the dishes and push back. Repeat for the upper basket. It is recommended that you load the lower basket first than the upper one (see the section entitled "Loading the Dishwasher").

2 Pour in the detergent (see the section entitled "Salt, Detergent and Rinse Aid").

3 Insert the plug into the socket. The power supply is 220–240 VAC 50 HZ, the specification of the socket is 10 A 220–240 VAC.

4 Make sure that the water supply is turned on to full pressure.

5 Open the door,press the ON/OFF button,the ON/OFF light will turn on.

6 Press the "prog." button to select the desired wash cycle (see Wash Cycle table on page14)

7 With a little force to ensure the door is properly closed.

8 When the washing is over, you can shut off the switch by pressing ON/OFF button

NOTE: A click could be heard when the door is closed perfectly. .

Change the Programme . . .

Premise: A cycle that is underway can only be modified if it has only been running for a short time. Otherwise, the detergent may have already been released, and the appliance may have already drained the wash water. If this is the case, the detergent dispenser must be refilled (see the section entitled " Loading the Detergent ").

Open the door,Press current prog. Button more than three seconds to cancel the program ,then you can change the program to the desired cycle setting (see the section entitled " Starting a wash cycle. . . "). Then, close the door.

NOTE: If you open the door when washing, the machine will pause. When you close the door , the machine will keep on working after 10 seconds.

The 7 program lights shows the state of the dishwasher:

Forget to Add a Dish?

A forgotten dish can be added any time before the detergent cup opens.Please be careful when opening the door while the dishwasher is in operation as hot water may scald you

1 Open the door a little to stop the washing.

2 After the spray arms stop working,you can open the door completely.

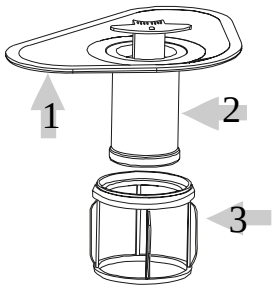
3 Add forgotten dishes.

4 Close the door, the dishwasher will work after ten second.

7.Maintenance and Cleaning

Filtering System

For your convenience, we have placed the drain pump and filtering system within easy reach inside the tub. There are three components of the filtering system: the main filter, the coarse filter, and the fine filter.



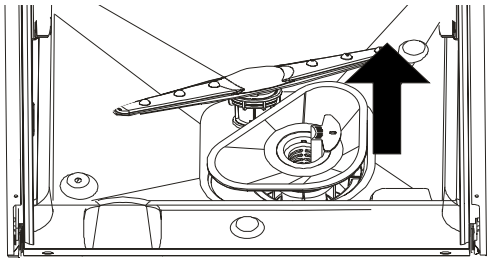
1 Main filter
Food and soil particles trapped by this filter are pulverized by a special jet on the lower spray arm and washed down the drain.

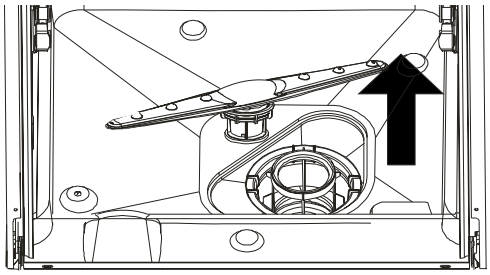
2 Coarse filter
Larger items, such as pieces of bone or glass, that could clog the drain are trapped in the coarse filter. To remove an item caught in this filter, gently squeeze the tabs on top of this filter and lift it out.

3 Fine filter
This filter holds soil and food residue in the sump area and prevents it from being redeposited on the dishes during a cycle.

ATTENTION: Do not put the fine filter upside down.

Cleaning the Filters





Filter assembly

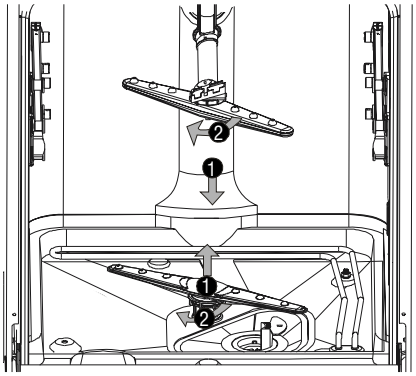
For best performance and results, the filter assembly must be cleaned. The filter efficiently removes food particles from the wash water, allowing it to be recirculated during the cycle. For this reason, it is a good idea to remove the larger food particles trapped in the filter after each wash cycle by rinsing the semicircular filter and cup under running water. To remove the filter assembly, pull on the cup handle in the upward direction. The entire filter assembly should be cleaned once a week.
To clean the coarse filter and the fine filter, use a cleaning brush. Then, reassemble the filter parts as shown in the figures left and reinsert the entire assembly in the dishwasher, positioning in its seat and pressing downward.
The dishwasher must never be used without the filters. Improper replacement of the filter may reduce the performance level of the appliance and damage dishes and utensils.

⚠ *WARNING!*

Never run the dishwasher without the filters in place. When cleaning the filters do not 'knock' or use excessive force to clean the filters as if the filters are bent in anyway the performance of the dishwasher may be effected

Cleaning the Spray Arms

It is necessary to clean the spray arms regularly for hard water chemicals will clog the spray arm jets and bearings. To remove the spray arms, screw off the nut clockwise to take out the washer on top of the spray arm and remove the arm. Wash the arms in soapy and warm water and use a soft brush to clean the jets. Replace them after rinsing them thoroughly.



Caring for the Dishwasher

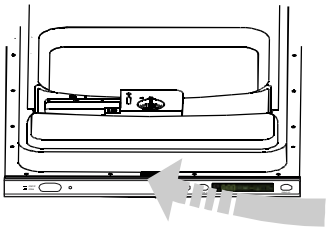
To clean the control panel use a lightly dampened cloth then dry thoroughly. To clean the exterior use a good appliance polish wax.
Never use sharp objects, scouring pads or harsh cleaners on any part of the dishwasher.

Protect Against Freezing

If your dishwasher is left in an unheated place during the winter, you should:

1.Cut off electrical power to the dishwasher.
2.Turn off the water supply and disconnect the water inlet pipe from the water valve.
3.Drain water from the inlet pipe and water valve. (Use a pan to catch the water)
4.Reconnect the water inlet pipe to the water valve.
5.Remove the filter in the tub the bottom and use a sponge to use up water in sump.

Cleaning the Door



To clean the edge around the door, you should use only a soft warm, damp rag. To prevent penetration of water into the door lock and electrical components, do not use a spray cleaner of any kind.
Also, never use abrasive cleaners or scouring pads on the outer surfaces because they will scratch the finish. Some papers towels can also scratch or leave marks on the surface.

⚠ *WARNING!*

Never use a spray cleaner to clean the door panel for it could damage the door lock and electrical components.

How to Keep Your Dishwasher in Shape

After Every Wash

After every wash, leave the door slightly ajar so that moisture and odors are not trapped inside.

Remove the Plug

Before cleaning or performing maintenance, always remove the plug from the socket.

No Solvents or Abrasive Cleaning

To clean the exterior and rubber parts of the dishwasher, do not use solvents or abrasive cleaning products.
Use only a cloth and warm soapy water.
To remove spots or stains from the surface of the interior, use a cloth dampened with water and a little white vinegar, or a cleaning product made specifically for dishwashers.

When You Go on Holiday

When you go on holiday, it is recommened that you run a wash cycle with the dishwasher empty and then remove the plug from the socket, turn off the water supply and leave the door of the appliance slightly ajar. This will help the seals last longer and prevent odors from forming within the appliance.

Moving the Appliance

If the appliance must be moved, try to keep it in the vertical position.If absolutely necessary, it can be positioned on its back.

Seals

One of the factors that cause odors to form in the dishwasher is food that remains trapped in the seals. Periodic cleaning with a damp sponge will prevent this from occurring.

8.Installation instruction

⚠ *Attention:*

The installation of the pipes
and electrical equipments
should be done by professionals.

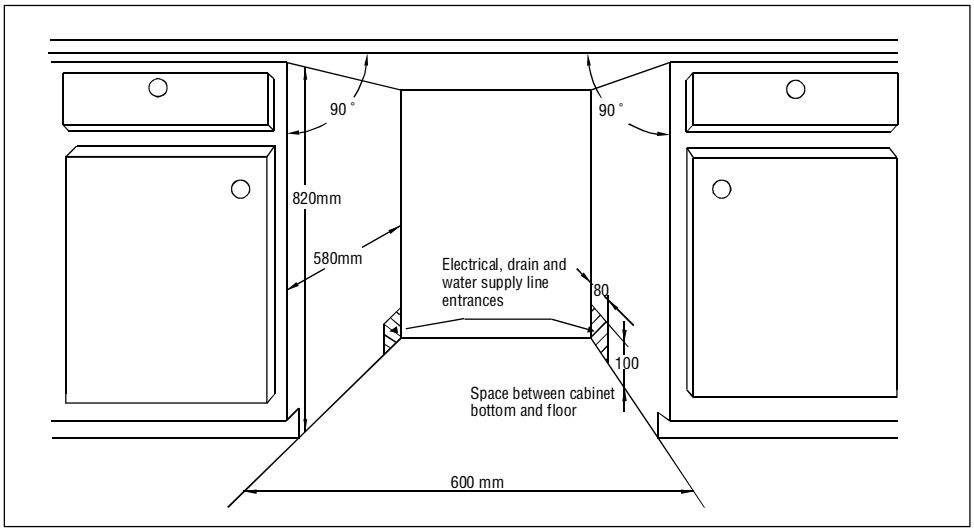
● Installation preparation

The installation position of dishwasher should be near the existing inlet and drain hoses and power cord.
One side of the cabinet sink should be chosen to facilitate the connection of drain hoses of the dishwasher.

Note: please check the accompanying installation accessories(hook for aesthetic panel and screw)

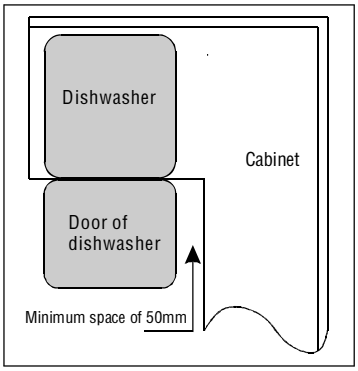
【 Figure1 】

Cabinet dimensions
Less than 5mm between the top of dishwasher and cabinet and the outer door aligned to cabinet.



【 Figure2 】

Minimum space when the door is opened

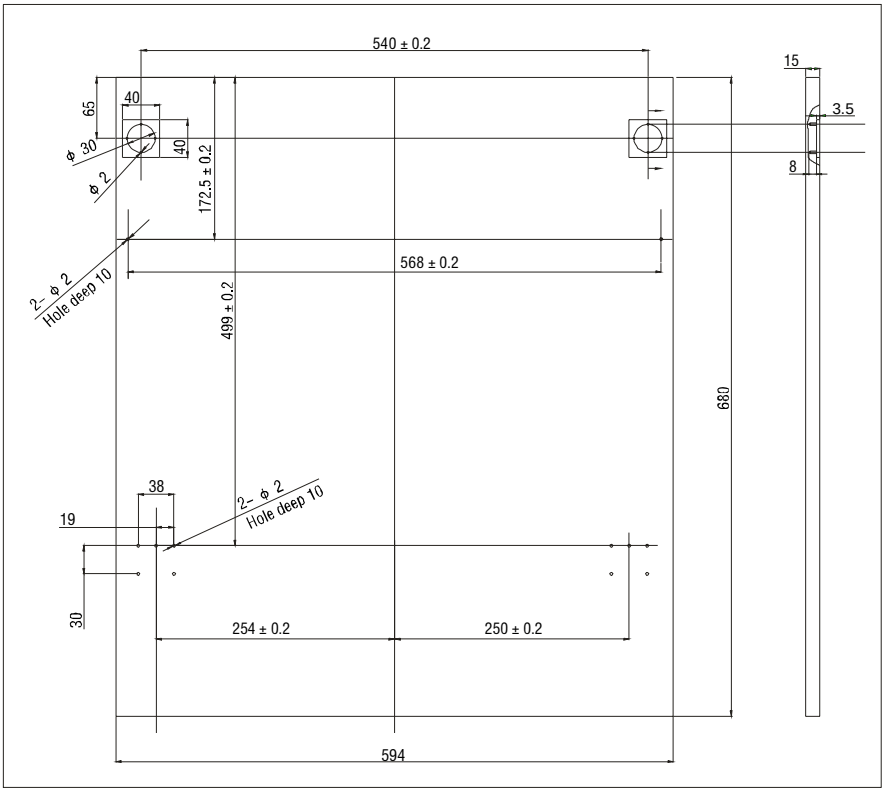


● Aesthetic panel's dimensions and installation

1 The aesthetic wooden panel could be processed according to the Figure 3.**A template has been included with the dishwasher.**

【 Figure3 】

The aesthetic panel should be processed in accordance with the illustrated dimensions

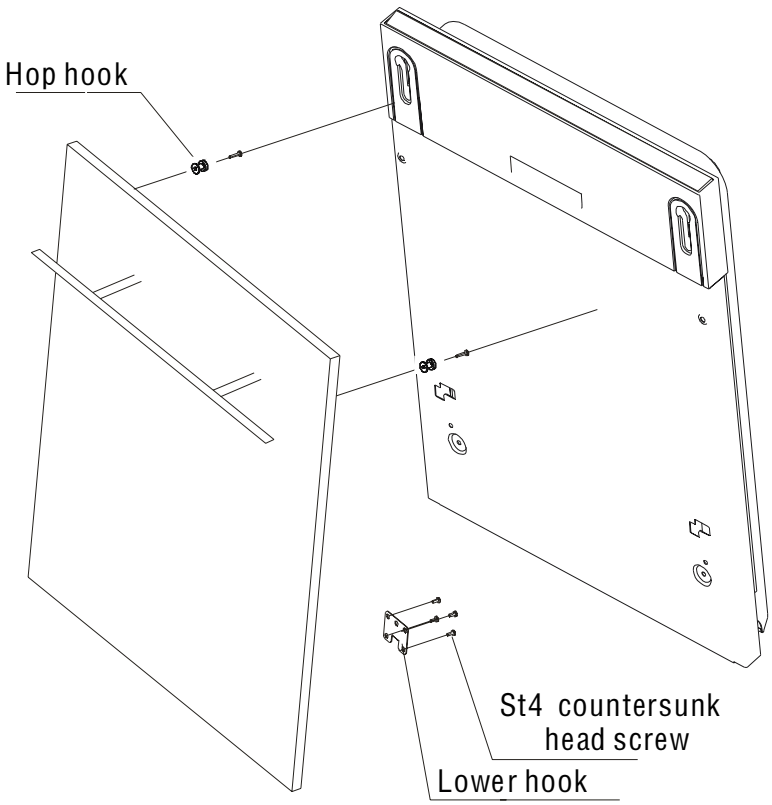


(Unit: mm)

2 Install the hook on the aesthetic wooden panel and put the hook into the slot of the outer door of dishwasher(see figure 4a). After positioning of the panel , fix the panel onto the outer door by screws and bolts(See figure 4b) .

【Figure4a】

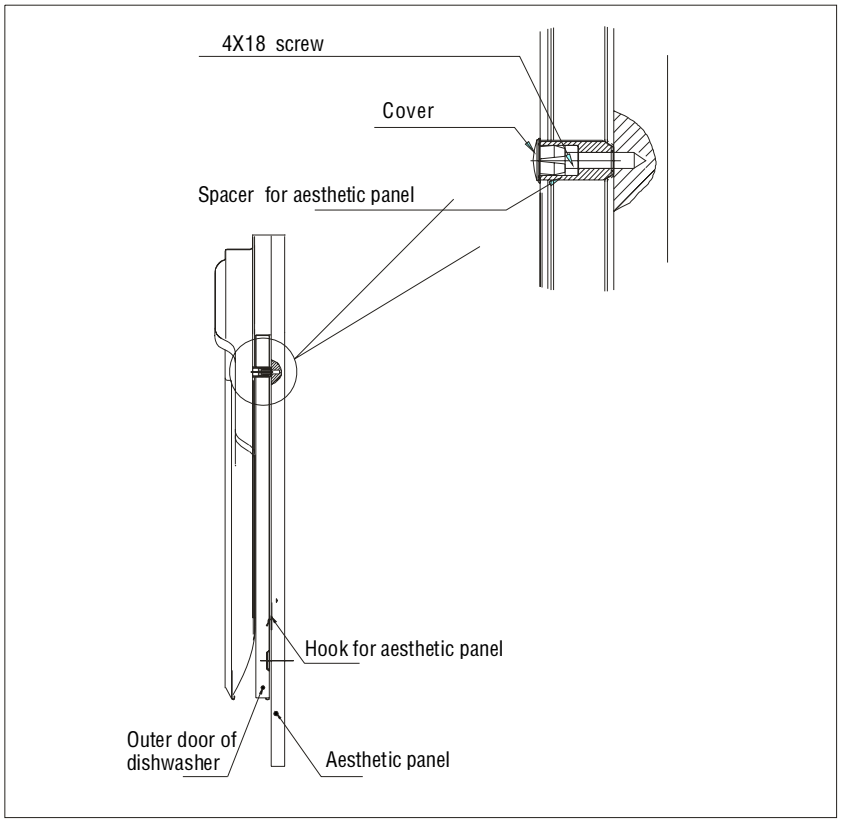
Installation of aesthetic panel



【Figure4b】

Installation of aesthetic wooden panel

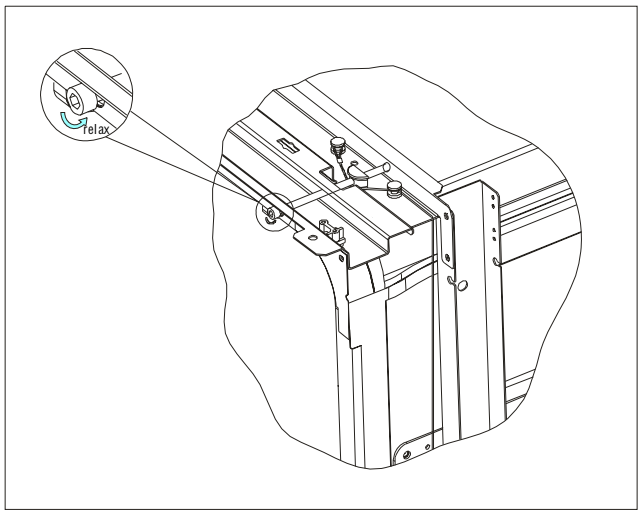
1. take away the cover
2. pin up the screw
3. get back the cover



● Tension adjustment of the door spring

The door springs are set at the factory to the proper tension for the outer door. If aesthetic wooden panel are installed, you will have to adjust the door spring tension. Rotate the adjusting screw to drive the adjustor to strain or relax the steel cable(see figure 5).

Door spring tension is correct when the door remains horizontal in the fully opened position, yet rises to a close with the slight lift of a finger.



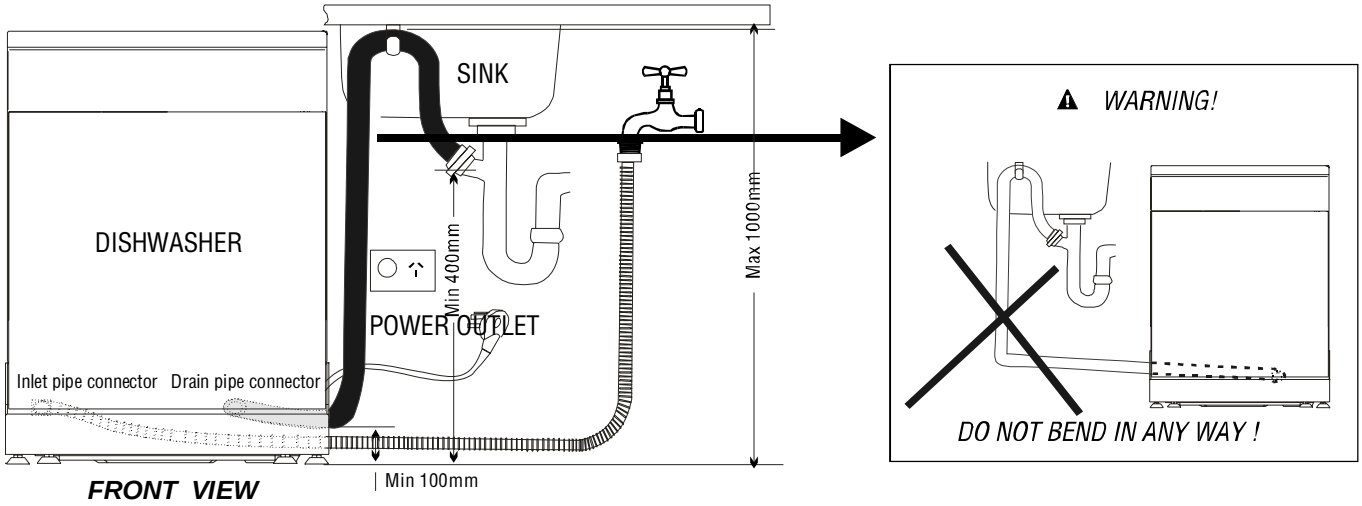
【Figure5】

Tension adjustment of the door spring

● Connection of drain hoses

Insert the drain hose into a drain pipe with a minimum diameter of 4cm, or let it run into the sink, making sure to avoid bending or crimping it. Use the speical plastic support that comes with the appliance (figure 6). The free and of the hose must be at a height between 400 and 1000mm and must not be immersed in water to avoid the back flow of it.ATTENTION: The special plastic hose support must be solidly fastened to the wall to prevent the drain hose from moving and allowing water to spill outside the drain.

【Figure6】



● Dishwasher installation steps

1 Install the furniture door to the outer door of the dishwasher using the brackets provided. Refer to the template for positioning of the brackets.

2 Adjust the tension of the door springs by using an Allen key turning in a clockwise motion to tighten the left and right door springs. Failure to do this could cause damage to your dishwasher (Illustration 2).

3 Connect the inlet hose to the cold water supply .

4 Connect the drain hose. Refer to diagram.(Figure 6)

5 Connect the power cord.

6 Put the dishwasher to slide rails(Illustration4) .

7 Add the condensation strip following instructions on the reverse side of the condensation strip .

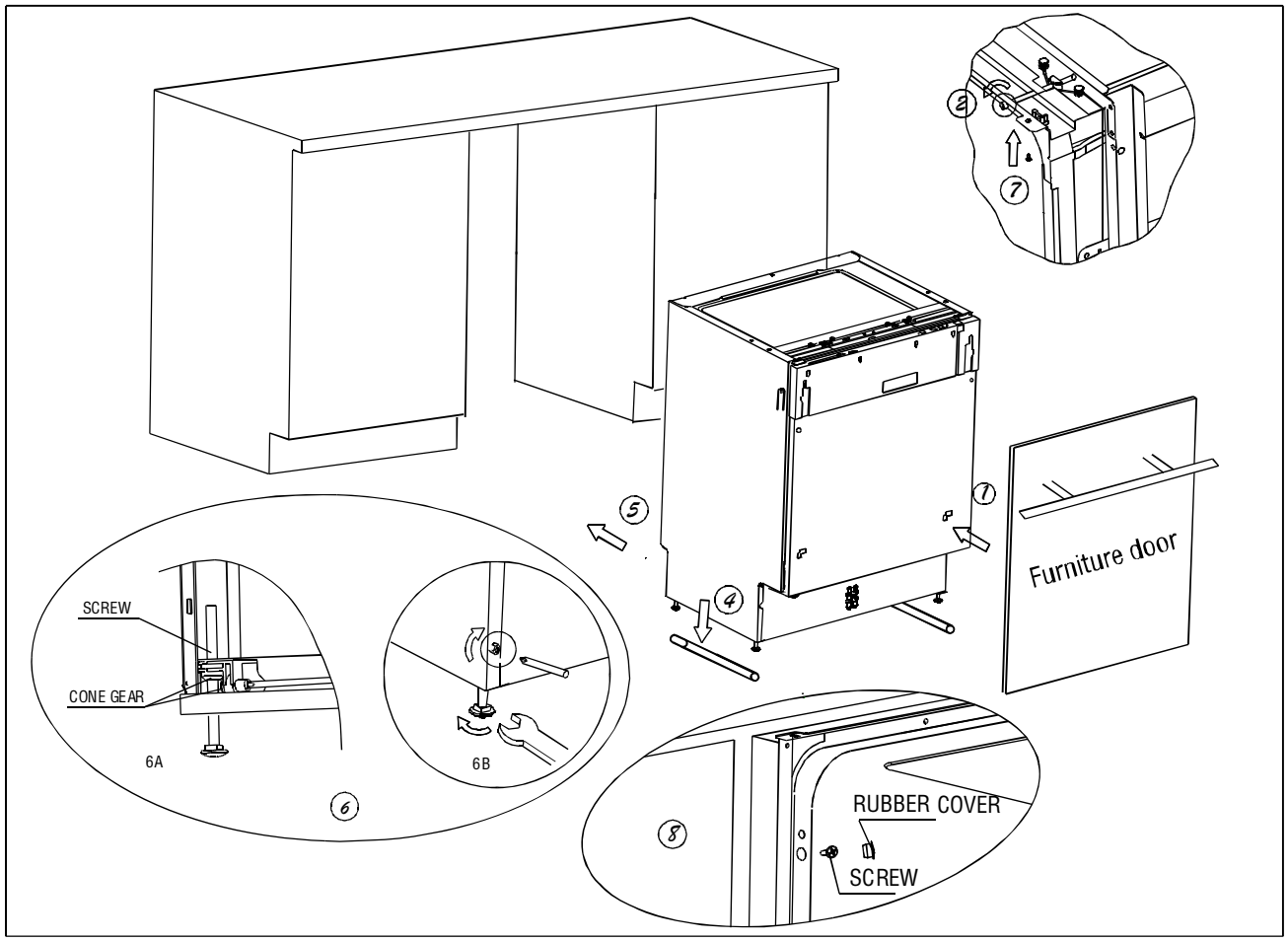
8 Place the dishwasher into position.

9 Level the dishwasher. The rear feet can be adjusted from the front of the dishwasher by turning the screws on the left and right hand side of the cabinet (Illustration 6A). To adjust the front feet, use a wrench and turn the front feet until the dishwasher is level (Illustration 6B).

10 The dishwasher must be secured in place. There are two ways to do this:

A. Normal work surface–secure to the work surface by using two woodscrews ensuring the dishwasher weight is not being hit by the surface (Illustration 7).

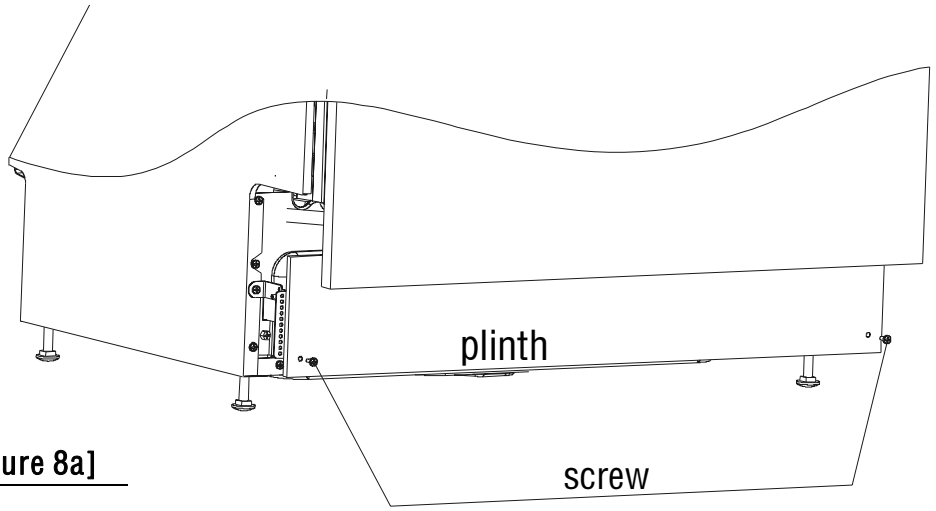
B. Marble or granite work top–secure the bracket to the side panel of the dishwasher and secure the dishwasher to the furniture housing. Put the rubber cap over the screw (Illustration 8).



【 Figure 7 】

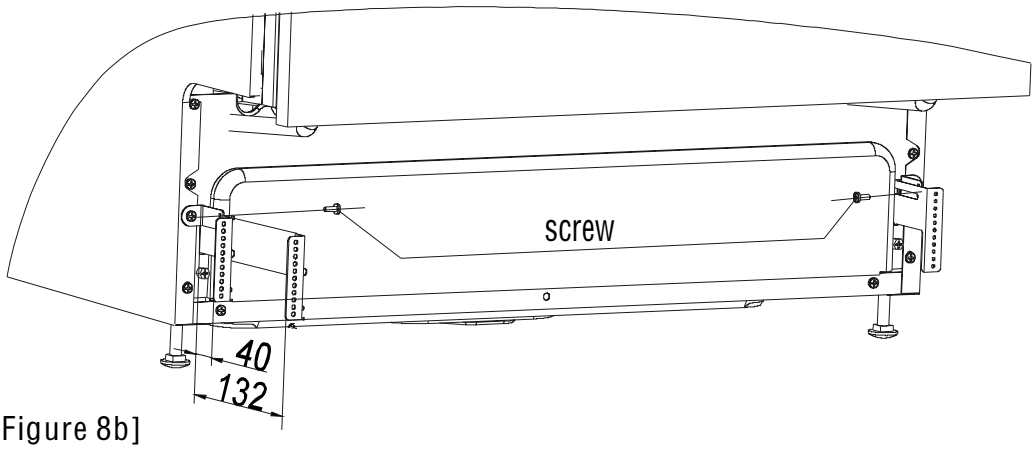
● Installation the plinth

1 Unscrew the two screws and remove the plinth from the dishwasher. [Figure 8a]



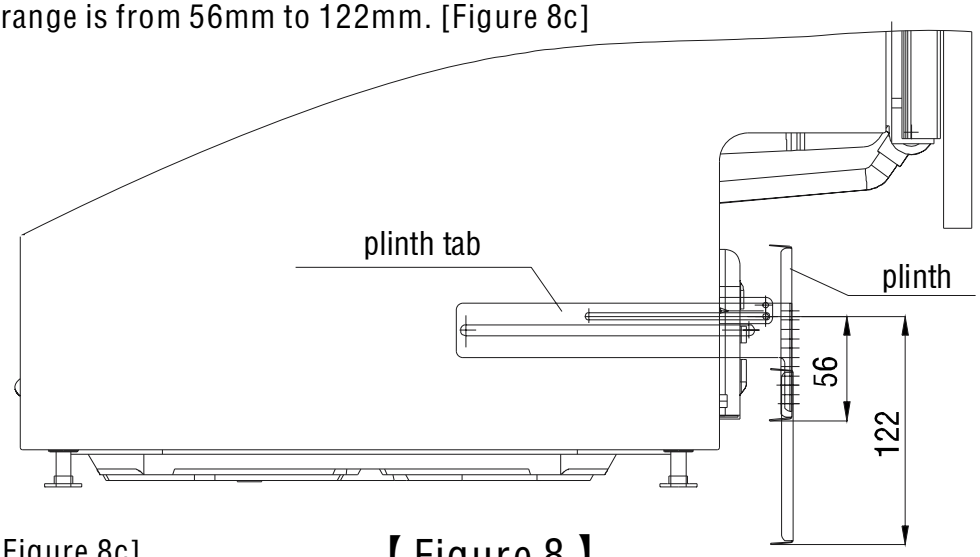
[Figure 8a]

2 Unscrew the two screws and adjust the distance of left and right plinth tab to your need. The adjustable range is from 39mm to 134mm. [Figure 8b]



[Figure 8b]

3 Fix the plinth on the plinth tab. According to your need to adjust the plinth height, the adjustable range is from 56mm to 122mm. [Figure 8c]



[Figure 8c]

【 Figure 8 】

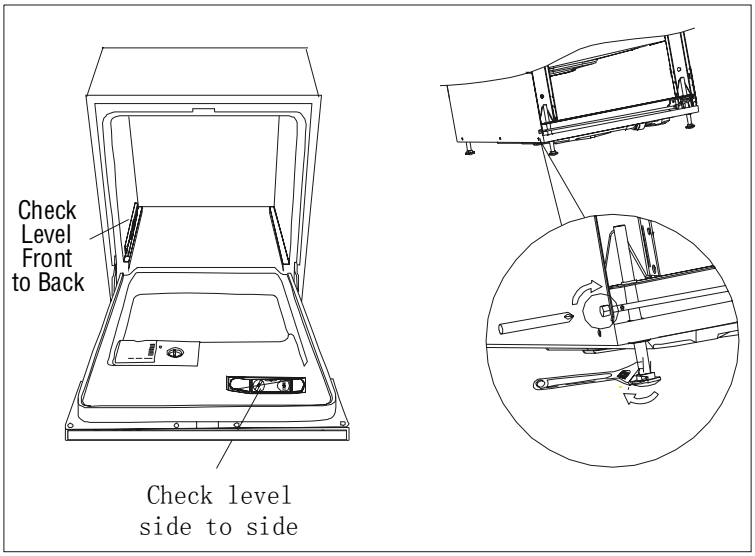
Dishwasher must be level for proper dish rack operation and wash performance.

1. Place level on door and rack track inside the tub as shown to check that the dishwasher is level.
2. level the dishwasher by adjusting the four leveling legs individually.
3. When level the dishwasher, please pay attention not to let the dishwasher tip forward.

【 Figure 9 】

Illustration of feet adjustment

NOTE:
The maximum adjustment height of the feet is 20 mm.



Electrical Connection

⚠ *CAUTION,* *for personal safety:*
Do not use an extension cord or adaptor plug with this appliance
Do not,under any circumstances,cut or remove the third grounding prong from the power cord.

Electrical Requirements

Please see the rating label to know the rating voltage and connect the dishwasher to the appropriate power supply, a 10 amp fused circuit is required with copper wire only. A sperate circuit with a circuit breaker serving only this appliance is recommended. The power outlet should be placed in an adjacent cabinet.

Electrical Connection

After making sure that the voltage and the frequency values for the current in the home correspond to those on the rating plate and that the electrical system is sized tor the maximum voltage on the rating plate, insert the plug into an electrical socket which is earthed properly. If the electrical socket to which the appliance must be connected is not appropriate tor the plug, replace the socket, rather than using a adaptors or the like as they could cause overheating and burns.

⚠ Insure proper ground exists before use

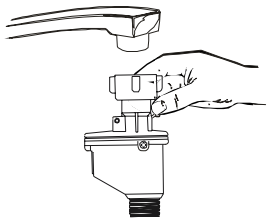
GROUNDING INSTRUCTIONS

- This appliance must be grounded. In the event of a malfunction or breakdown, grounding will reduce the risk of electric shock by providing a path of least resistance of electric current. This appliance is equipped with a cord having an equipment–grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is installed and grounded in accordance with all local codes and ordinances.

⚠ *WARNING!*

- Improper connection of the equipment–grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service representative if you are in doubt whether the appliance is properly grounded. Do not modify the plug provided with the appliance; If it is not fit for the outlet. Have a proper outlet installed by a qualified electrician.

How to Connect the safety supply hose



The appliance must be connected to the water mains using new hose–sets.
The old hose–sets should not be reused.

Water pressure must be between 0.04 MPa and 1 Mpa.

1 Pull The safety supply hoses completely out from storage compartment located at rear of dishwasher.

2 Tighter the screws of the safety supply hose to the faucet.

3 Turn water fully on before starting the dishwasher.

AQUASAFE.

The Aquasafe is a safety valve system, protecting you from water leaks. If the water inlet hose starts to leak during a wash cycle, the safety valve cuts off the running water. Do not immerse the water inlet hose or the safety valve in water, because the electrical cable for the safety valve is in the double–walled water inlet hose.
If the water inlet hose or the safety valve is damaged, remove the main plug immediately.
Do not enlarge or shorten the inlet hose because it contains electrical parts

⚠ WARNING!

A hose that attaches to a sink spray can burst if it is installed on the same water line as the dishwasher. If your sink has one, it is recommended thet the hose be disconnected and the hole plugged.

How to Disconnect the safety supply hose

1 Turn off the water.

2 Release the water pressure by depressing the pressure release button. This relieves water pressure and protects you, and the room, from severe splashing.

3 Unscrew the safety supply hose from the tap.

COLD WATER CONNECTION

Connect the cold water supply hose to a threaded 3/4(inch) connector and make sure that it is fastened tightly in place.
If the water pipes are new or have not been used for an extended period of time, let the water run to make sure that the water is clear and free of impurities. If this precaution is not taken, there is a risk that the water inlet can get blocked and damage the appliance.

HOT WATER CONNECTION

The water supply to the appliance can also be connected to the house hot water line (centralized system, heating system), as long as it does not exceed a temperature of 60°C. In this case, the wash cycle time will be shortened by about 15 minutes and the wash efficiency slightly reduced.
The connection must be made to the hot water line following the same procedures as those for the connection to the cold water line.

● Start of dishwasher

The followings should be checked before starting the dishwasher.

1. The dishwasher is level and fixed
2. The inlet valve is opened
3. There are no leaks
4. The electrical plug and lead is undamaged and connected to the socket correctly
5. The inlet and drain hoses are not knotted or twisted in any way that will effect the water supply
6. The inlet and drain hoses are knotted
7. All packing materials and printings should be taken out from the dishwasher

● Attention

After installation please retain this instruction manual for future reference and trouble shooting.

9.Troubleshooting Tips

Before Calling for Service

Review the charts on the following pages may make you be free of calling for service.

Problem	Possible Causes	What To Do
Dishwasher doesn't run	Fuse blown, or the circuit breaker acted	Replace fuse or reset circuit breaker. Remove any other appliances sharing the same circuit with the dishwasher
	Power supply is not turned on	Make sure the dishwasher is turned on and the door is closed securely. Make sure the power cord is properly plugged into the wall socket.
	Water pressure is low	Check that the water supply is connected properly and the water is turned on.
Drain pump doesn't stop	Overflow	The system is designed to detect an overflow. When it does, it shuts off the circulation pump and turns on the drain pump.
Noise	Some audible sounds are normal	Sound from soft food shredding action and detergent cup opening.
	Utensils are not secure in the baskets or something small has dropped into the basket	To ensure everything is secured in the dishwasher.
	Motor hums	Dishwasher has not been used regularly. If you do not use it often, remember to set it to fill and pump out every week, which will help keep the seal moist.
Suds in the tub	Improper detergent	Use only the special dishwasher detergent to avoid suds. If this occurs, open the dishwasher and let suds evaporate. Add 4 litres of cold water to the tub. Close and latch the dishwasher, then Start the "soak" wash cycle to drain out the water .. Repeat if necessary.
	Spilled rinse agent	Always wipe up rinse agent spills immediately.
Stained tub interior	Detergent with colorant was used	Make sure that the detergent is the one without colorant.
Dishes are not dried	Rinse agent dispenser is empty	Make sure that the rinse agent dispense is filled.
Dishes and flatware not clean	Improper program	Select stronger program
	Improper rack loading	Make sure that the action of the detergent dispenser and spray arms are not blocked by large dishware.
Spots and filming on glasses and flatware	1 Extremely hard water 2 Low inlet temperature 3 Overloading the dishwasher 4 Improper loading 5 Old or damp powder detergent 6 Empty rinse agent dispenser 7 Incorrect dosage of detergent	To remove spots from glassware: 1 Take out all metal utensils out of the dishwasher. 2 Do not add detergent. 3 Choose the longest cycle. 4 Start the dishwasher and allow it to run for about 18 to 22 minutes, then it will be in the main wash. 5 Open the door to pour 2 cups of white vinegar into the bottom of the dishwasher. 6 Close the door and let the dishwasher complete the cycle. If the vinegar does not work: Repeat as above, except use 1/4 cup (60 ml)of citric acid crystals instead of vinegar.

Before calling for service . . .

Problem	Possible Causes	What To Do
Cloudiness on glassware	Combination of soft water and too much detergent	Use less detergent if you have soft water and select a shortest cycle to wash the glassware and to get them clean.
Yellow or brown film on inside surfaces	Tea or coffee stains	using a solution of 1/2 cup of bleach and 3 cups warm water to remove the stains by hand. ⚠ *WARNING* You have to wait for 20 minutes after a cycle to let the heating elements cool down before cleaning interior; otherwise, burns will happen.
	Iron deposits in water can cause an overall film	You have to call a water softener company for a special filter.
White film on inside surface	Hard water minerals	To clean the interior, use a damp sponge with dishwasher detergent and wear rubber gloves. Never use any other cleaner than dishwasher detergent for the risk of foaming or suds.
Detergent left in dispenser cups	Dishes block detergent cups	Re–loading the dishes properly.
Steam	Normal phenomenon	There is some steam coming through the vent by the door latch during drying and water draining.
Black or gray marks on dishes	Aluminum utensils have rubbed against dishes	Use a mild abrasive cleaner to eliminate those marks.
Water standing in the bottom of the tub	This is normal	A small amount of clean water around the outlet on the tub bottom keeps the water seal lubricated.
Dishwasher leaks	Overfill dispenser or rinse aid spills	Be careful not to overfill the rinse aid dispenser. Spilled rinse aid could cause oversudsing and lead to overflowing. Wipe away any spills with a damp cloth.
	Dishwasher isn't level	Make sure the dishwasher is level.

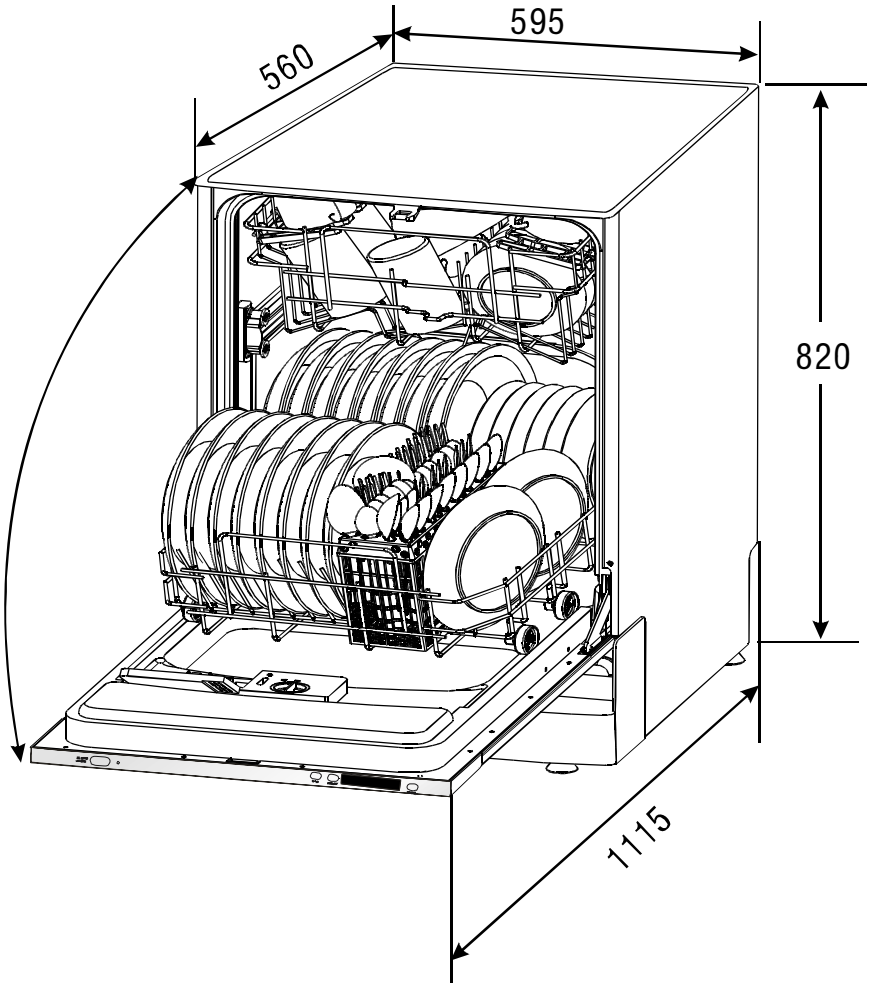
ERROR CODES

When some malfunctions come on , the appliance will display error codes to warn you:

Codes	Meanings	Possible Causes
E1	Longer inlet time.	The tap is not opened, or water intake is restricted,or water pressure is too low.
E3	Longer heating time, but not reaching required temperature	Malfunction of temperature sensor or of heating element.
E4	Overfilled.	Too much inlet water. .
E6	Failure of temperature sensor	Short circuit or break of temperature sensor
E7	Failure of temperature sensor	Open circuit or break of temperature sensor

WARNING!

If overflow occurs, turn off the main water supply before calling a service. If there is water in the base pan because of an overfill or small leak, the water should be removed before restarting the dishwasher.



Height :	820mm(adjustable+10mm)
Width :	595mm
Depth :	560mm
Voltage connected Load :	see rating label
Water pressure:	0.04–1.0MPa
Hot water connection :	max 60 ℃
Power supply:	see rating label
Capacity:	14 Place settings